

# Sepehr Dehdashtian

517-721-0269 | [sepehr@msu.edu](mailto:sepehr@msu.edu) | [Website](#) | [Google Scholar](#) | [LinkedIn](#) | [GitHub](#)

## Education

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Michigan State University | Ph.D. in Computer Science Jun. 2022 – Present

- **Focus:** Responsible AI, Generative AI, Multimodal Models, Computer Vision
- **GPA:** 4.0/4.0

Sharif University of Technology | M.Sc. in Electrical Engineering Sep. 2018 – Feb. 2021

- **Thesis:** Blind Recognition of Channel Codes Using Deep Neural Networks
- **GPA:** 3.87/4.0

Shahid Chamran University of Ahvaz | B.Sc. in Electrical Engineering Sep. 2014 – Aug. 2018

- **GPA:** 3.93/4.0 (ranked 1<sup>st</sup>)

## Publications

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**OASIS Uncovers: High-Quality T2I Models, Same Old Stereotypes** 2024

[Sepehr Dehdashtian](#), Gautam Sreekumar, Vishnu Naresh Boddeti

International Conference on Learning Representations (ICLR) 2025 (Under Review)

**Fairness and Bias Mitigation in Computer Vision: A Survey** 2024

[Sepehr Dehdashtian](#)\*, Ruozhen He\*, Yi Li, Guha Balakrishnan, Nuno Vasconcelos, Vicente Ordonez, Vishnu Naresh Boddeti

IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI) (Under Review)

**The Dark Side of Dataset Scaling: Evaluating Racial Classification in Multimodal Models** 2024

Abeba Birhane\*, [Sepehr Dehdashtian](#)\*, Vinay Prabhu, Vishnu Naresh Boddeti

ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2024

**Utility-Fairness Trade-Offs and How to Find Them** 2024

[Sepehr Dehdashtian](#), Bashir Sadeghi, Vishnu Naresh Boddeti

IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2024

**FairerCLIP: Debiasing CLIP's Zero-Shot Predictions using Functions in RKHSs** 2024

[Sepehr Dehdashtian](#)\*, Lan Wang\*, Vishnu Naresh Boddeti

International Conference on Learning Representations (ICLR) 2024

**On characterizing the trade-off in invariant representation learning** 2022

Bashir Sadeghi, [Sepehr Dehdashtian](#), Vishnu Naresh Boddeti

Transactions on Machine Learning Research (TMLR)

**Deep-Learning Based Blind Recognition of Channel Code Parameters over Candidate Sets under AWGN and Multi-Path Fading Conditions** 2021

[Sepehr Dehdashtian](#), Matin Hashemi, Saber Salehkaleybar

IEEE Wireless Communications Letters

## Professional Experience

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**Research Intern at Reality Defender (Mentor: Dr. Jacob Seidman)** **Dec. 2024 – Present**

- Conducted research to identify and analyze failure modes in audio, image, and video classifiers.

**Research Assistant at Michigan State University** **Jun. 2022 – Present**

- Developed algorithms to make computer vision, multimodal, and generative models debiased.
- Published papers in top computer vision and machine learning conferences: ICLR'24, CVPR'24.

**Research Assistant at Sharif University of Technology** **Nov. 2018 – Feb. 2021**

- Developed deep learning based methods for blind recognition of channel codes.
- Published a research paper in IEEE Wireless Communication Letters.

## Awards & Honors

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- **STEAMpower Fellowship** **2024**
- **TMLR Outstanding Paper Award Runner-Up and TMLR Featured Certification Award** **2023**
- **Ranked 2nd GPA the graduating class of 2021 | Sharif University of Technology** **2021**
- **Ranked 5th out of 30,000 | Iranian University Entrance Exam for Master's degree** **2018**
- **Ranked 1st GPA the graduating class of 2018 | Shahid Chamran University of Ahvaz** **2018**

## Technical Skills

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**Languages:** Python, C++, CUDA, Verilog, VHDL

**ML Frameworks:** PyTorch, PyTorch-Lightning, TensorFlow, Keras, OpenCV, Scikit-Learn

**Others:** RevealJS, Git, MATLAB, FPGA

## Projects

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- **Mitigating Political Bias in Pre-Trained Large Language Models** **2023**
- **Visually Explaining Fair Representation Learning—A Model Perspective** **2023**
- **Video Synopsis using OpenCV in Python** **2019**

## Services and Activities

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- **Mentored Student: Yilin Zheng (Master Student at MSU)** **Jan. 2024 – present**
- **Scientific-Students Associations of Clean Energy | Deputy Secretary** **2016**
- **Scientific-Students Associations of EE Department | Member** **2015**